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CLIPPEDIMAGE= JP02001034526A

PAT-NO: JP02001034526A

DOCUMENT-IDENTIFIER: JP 2001034526 A

TITLE: METHOD AND DEVICE FOR AUTOMATICALLY SYNCHRONIZING
VERSIONS OF

DISTRIBUTED DOCUMENTS

PUBN-DATE: February 9, 2001

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APPL-NO: JP2000180511

APPL-DATE: June 15, 2000

INT-CL (IPC): G06F012/00; G06F015/16 ; G06F015/177

ABSTRACT:

PROBLEM TO BE SOLVED: To make automatically synchronize the
versions of
distributed documents by using a taken-out copy to format a 2nd
copy when it is
judged that the taken-out copy is the latest version of a 1st
document.

SOLUTION: A Web page including plural paths is accessed (610).
When the Web
page is generated by means of a target document which is loaded
from a cache
version (617), a priority location (625) or a fall-back location
(635), a Web
browser collates a copy of the target document existing in a
master location
with the version of the target document (660). When no
coincidence is
confirmed in this collation, the document that is loaded to be
coincident with
the target document of the master location is updated as
necessary (670).

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INT-CL_(IPC): G06F015/16

ABSTRACTED-PUB-NO: WO 200042519A

BASIC-ABSTRACT: NOVELTY - The local caching module (17) receives file extracted from communication medium and instructs management module (29) to store portion of the files in cache database (24): A local proxy server (22), upon request from customer stations by the module (29), checks if requested information is in extracted database. If information does not exist, server transmits non availability message to the module.

DETAILED DESCRIPTION - The system has a central proxy server (12) operating under a network protocol. A master cache database (14) stores data files (15) extracted from the Internet by proxy server. A central caching module (13) operates within a proxy server. Each local server is communication with a local cache database (24). A cache database management module (29) interfaces with the local cache database (24) of the local proxy server (22). The local servers provide information to users at end stations (30) with access to global communication network on the Internet (20). The end user is connected to the local server over the network (44). The local server receives and stores high demand data files (15) in the cache database (24). The communication medium performs transmission by a satellite (18) at high speed. The web pages (15a) are concurrently transmitted to each local server on request by the local server. Each local server receives the web pages and stores them in local cache database for selected period of time. An INDEPENDENT CLAIM is also included for the method for accelerating distribution of information over global communication network.

USE - To speed-up distribution of content on Internet.

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DERWENT-ACC-NO: 2001-354311
DERWENT-WEEK: 200137
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TITLE: Information distribution accelerating system has local
caching module
to receive extracted data files and instructs cache database
management module
to store portion of files in caching database

INVENTOR: HURST, M; MERKLEY, K ; POWELL, K

PATENT-ASSIGNEE: EDGIX CORP[EDGIN]

PRIORITY-DATA: 2000US-0480285 (January 10, 2000) , 1999US-0115456
(January 11,
1999) , 1999US-0169971 (December 8, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
PAGES	MAIN-IPC	
AU 200028477 A	August 1, 2000	N/A
G06F 015/16		000
WO 200042519	July 20, 2000	E
G06F 015/16		050
A1		

DESIGNATED-STATES: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR
CU CZ DE DK DM E
E ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK
LR LS LT LU LV
MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR
TT TZ UA UG UZ
VN YU ZA ZW AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE
LS LU MC MW NL O
A PT SD SE SL SZ TZ UG ZW

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE		
AU 200028477A	N/A	2000AU-0028477
January 11, 2000		
AU 200028477A	Based on	WO 200042519
N/A		
WO	N/A	2000WO-US00587
January 11, 2000		
200042519A1		

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ADVANTAGE - If web page is present, the local proxy server transmits the page through a network to user, and by by-passing the Internet, the transmission is more rapid. Hence Internet traffic is reduced and Internet cost is reduced.

Allows web page to be transmitted entirely, rather than transmitting a list of contents of pages and going back separately requesting those contents as is conducted with most Internet accesses.

DESCRIPTION OF DRAWING(S) - The figure shows the schematic block diagram of Internet content delivery accelerating system.

Central proxy server 12

Central caching module 13

Master cache database 14

Data files 15

Web pages 15a

Local caching module 17

Satellite 18

Internet 20

Local proxy server 22

Local cache database 24

Cache database management module 29

End stations 30

Network 44

CHOSEN-DRAWING: Dwg.1/10

TITLE-TERMS:

INFORMATION DISTRIBUTE ACCELERATE SYSTEM LOCAL MODULE RECEIVE
EXTRACT DATA FILE

CACHE DATABASE MANAGEMENT MODULE STORAGE PORTION FILE DATABASE

DERWENT-CLASS: T01 W01

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EPI-CODES: T01-H03A; T01-H07C5E; T01-H07C5S; T01-J05B4P;
W01-A06B7; W01-A06E1;

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N2001-257386